What is claimed is:

1. A microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to produce C-13 glycosidated nemadectin.

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2. The microorganism strain according to claim 1 wherein the microorganism strain having ability to produce C-13 glycosidated nemadectin is Streptomyces cyaneogriseus subsp. noncyanogenus $\Delta nemA4::vph \qquad attB_{TG1}::aveA4-aveA3-aveE \qquad attB\phi_{c31}::aveR$

10 attB_{R4}::aveBI-BVIII (FERM BP-8394).

3. A microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to produce C-13 hydroxylnemadectin.

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- 4. The microorganism strain according to claim 3 wherein the strain having ability to produce C-13 hydroxylnemadectin is Streptomyces cyaneogriseus subspecies noncyanogenus $\Delta \text{nemA4::vph attB}_{\text{TG1}}\text{::aveA4-aveA3-aveE} \text{ attB}\phi_{\text{c31}}\text{::aveR} \text{ (FERM BP-8395)}.$
- 5. A process for manufacturing C-13 hydroxylnemadectin comprising culturing a microorganism belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to produce C-13 hydroxylnemadectin in a medium, producing and accumulating C-13 hydroxylnemadectin in a culture medium, and collecting C-13 hydroxylnemadectin from the cultured mass.
- 6. A process for manufacturing C-13 glycosidated nemadectin

comprising culturing a microorganism belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to produce C-13 glycosidated nemadectin in a medium, producing and accumulating C-13 glycosidated nemadectin in a culture medium, and collecting C-13 glycosidated nemadectin from the cultured mass.

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- 7. A microorganism belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining gene groups of avermectin aglycon biosynthesis of Streptomyces avermitilis and having ability to produce C-13 hydroxylnemadectin.
- 8. A manufacturing method of the microorganism described in claim 7 belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining gene groups of avermectin aglycon biosynthesis of Streptomyces avermitilis and having ability to produce C-13 hydroxylnemadectin.
- 9. A microorganism belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining gene groups of avermectin aglycon biosynthesis of Streptomyces avermitilis and having ability to produce C-13 glycosidated nemadectin
- 10. A method for preparation of the microorganism described 25 in claim 9 belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining gene groups of avermectin aglycon biosynthesis of Streptomyces avermitilis and having ability to produce C-13 glycosidated nemadectin.

11. A nemadectin non-producing microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and inserting viomycin resistant gene in the region coding nemadectin aglycon biosynthesis genes nemA3-4 operon KS10 (KS10 insertion mutant).

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- 12. The microorganism strain according to claim 11 wherein the nemadectin non-producing microorganism strain is Streptomyces cyaneogriseus subspecies noncyanogenus Δ nemA4::vph (FERM BP-8393).
- 13. A microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus, maintaining avermectin aglycon biosynthesis genes aveA3-4 of Streptomyces avermitilis in the KS10 insertion mutant, and having ability to form a hybrid PKS with NemA1-2 and AVES3-4.
- 14. A microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to form a hybrid PKS with NemA1-2 and AVES3-4, wherein the microorganism strain maintains a regulator gene aveR of avermectin biosynthesis genes of Streptomyces avermitilis.
- 15. A microorganism strain belonging to Streptomyces cyaneogriseus subspecies noncyanogenus and having ability to form a hybrid PKS with NemA1-2 and AVES3-4, wherein the microorganism strain maintains a regulator gene aveR of avermectin biosynthesis genes and an avermectin glycosidation and an oleandrose biosynthesis genes aveBI-BVIII of Streptomyces

avermitilis.